Index to Volume 166

Acetate metabolism, 121
Acetylcholine and vascular response, 723
Ac-globulin and aureomycin, 578
Acidosis and insulin, 191
Acid secretion by stomach, 456
Adenohypophysis, Banthine blockade, 223
Adolph, E. F.
  Responses to hypothermia in several species of infant mammals, 75
  Some differences in responses to low temperatures between warm-blooded and cold-blooded vertebrates, 92
Adolph, E. F. and J. W. Lawrow. Acclimatization to cold air; hypothermia and heat production in golden hamster, 62
Adrenal cortex
  and adrenocorticotrophic hormone, 165
  and ascorbic acid, 374
  and cortisone, 504
  and hyaluronidase, 555
  and hypertension, 185
  and pyridoxine, 538
  and renal hypertension, 528
  and sodium chloride deficiency, 524
Adrenal glomerular zone hypertrophy and potassium chloride, 273
Adrenaline (*see also* Epinephrine)
  and anxiety, 314
  from suprarenal, 284
Adrenergic substance in blood, 314
Adrenocorticotrophic hormone, 165, 518
Age and glucose metabolism, 541
Agress, C. M., M. J. Rosenburg, M. J. Binder, A. Schneiderman and W. G. Clark. Blood volume changes in protracted shock resulting from experimental myocardial infarction, 603
Allen, W. F. Effects of sectioning pyramidal or extrapyramidal tracts on positive and negative conditioned reflexes in dogs, 176
Alloxan diabetes and sex, 364
Altitude and cobalt effects, 394
Ammonium chloride and insulin, 191
Angrist, A., 578
Antia, F., C. E. Rosiere, Charlotte Robertson and M. I. Grossman. Effect of vagotomy on gastric secretion and emptying time in dogs, 470
Antibiotics, effect on eviscerate rat, 349
Antigens and arthritis, 340
Anxiety and nor-adrenaline, 314
Appetite and recovery from starvation, 566
Arterenol and epinephrine, 304
Arteriovenous pressures in umbilical cord, 25
Arthritis and hormones, 340
Ascorbic acid metabolism, 374
Atwell, R. J., J. B. Hickam, W. W. Pryor and E. B. Page. Reduction of blood flow through the hypoxic lung, 37
Atrial systole and ventricular pressure, 289
Aureomycin and blood coagulation, 578
Auscultatory method, basal blood pressure, 296

Bacchus, H. Decrease of cardiac mass following excess dietary potassium chloride in rat, 273
Baez, S., B. W. Zweifach, R. Pellon and E. Shorr. A renal factor in vascular response to hemorrhagic and traumatic shock, 658
Bancroft, R. W. and D. R. Drury. Glucose equivalent of fed protein, 213
Banthine and LH release, 223
Barnes, R. H., 433
Bass, Anne C., 493
Bazett's *K*, 584
Beach, E. F., Phoebe J. Bradshaw and N. R. Blatherwick. Alloxan diabetes in albino rat as influenced by sex, 364
Bean, J. W., W. P. Mayo, F. O'Donnell and G. W. Gray. Vascular response in dog lung induced by alterations in pulmonary arterial CO_2 tension and by acetylcholine, 723
Bella, S. T., 666
Benemid, *p*-(di-*n*-propylsulfamyl)-benzoic acid, and renal affinity, 625
Benjamin, J. W., 578
Berne, R. M., 262
Bernheim, F., 528
Bernthal, T. and C. C. Woodcock, Jr. Responses of vasomotor center to hypoxia after denervation of carotid and aortic bodies, 45
Beyer, K. H., H. F. Russo, Elizabeth K. Tillson, A. Katherine Miller, W. F. Verwey and S. R. Gass. 'Benemid,' *p*-(di-*n*-propylsulfamyl)-benzoic acid: its renal affinity and its elimination, 625
Binder, M. J., 603
Bioassay of thymus hormone, 550

Bladder (*see also* Kidney)
and pelvic nerve section, 692
volume-pressure relations, 686
BLATHERWICK, N. R., 364
Blood
and cysteine protection against x-irradiation, 15
erythrocytes and irradiation, 380
glucose distribution, 159
hemodynamic changes, 262
l-arterenol and epinephrine, 304
leukocytes and sodium chloride deficiency, 524
lipase activity and hemorrhagic pancreatitis, 413
nor-adrenaline and anxiety, 314
plasma, 304
proteolytic activity in serum, 485
proteolytic enzyme system, 594
pulmonary arterial, 723
venous pressure and sodium clearance, 400
Blood changes
and ascorbic acid, 374
and cobalt, 394
and radiation, 323
vasomotor response to hypoxia, 45
Blood coagulation and aureomycin, 578
Blood flow
through hypoxic lung, 37
renal artery occlusion, 666
in umbilical vessels, 25
Blood gas studies in hypothermia, 55
Blood pressure
and fasting, 296
vasomotor response to hypoxia, 45
Blood sugar and acidosis, 191
Blood volume changes and coronary shock, 603
BLOOM, B., I. L. CHAIKOFF AND W. O. REINHARDT. Intestinal lymph as pathway for transport of absorbed fatty acids of different chain lengths, 451
Body temperature (*see* Temperature)
BOLLMAN, J. L., 1
BOOKER, W. M., R. L. HAYES, MARIANNA B. SEWELL AND FRANCES M. DENT. Experimental studies on ascorbic acid metabolism, 374
BORISON, H. L., 712
BOSSHARDT, D. K., L. S. CIERESKO AND R. H. BARNES. Preparation of a pancreas derivative having lipotropic activity, 433
Bowel, small, histamine absorption in wall, 462
BOZLER, E. AND B. H. BURCH. Role of vagus in control of respiration, 255
BRADSHAW, PHOEBE J., 364
Brain slices and barbiturates, 219
BROOKHART, J. M., 241
BROWER, T. D., 328
BURCH, B. H., 255

CALCIUM
effects of feeding, 209
and magnesium syndrome, 408
and oxygen consumption, 219
Calcium metabolism and vitamin D, 387
Capillary permeability
and adrenocorticotrophic hormone, 518
and cortisone, 509
Carbohydrate metabolism and alloxan diabetes, 364
Carbon dioxide, metabolism of acetate, 121
Cardiac mass and potassium chloride, 273
Cardiac muscle and sodium chloride, 269
Cardiac muscle changes and epinephrine, 277
Cardiac output (*see also* Heart)
and sodium excretion, 262
and ventricle excitability, 610
Cardioacceleration in neurogenic hypertension, 12
Carotid occlusion and adrenaline output, 284
CARPENTER, F. G. Histological changes in parasympathetically denervated feline bladder, 692
CARPENTER, F. G. AND W. S. ROOT. Effect of parasympathetic denervation on feline bladder function, 686
Cartilages, hyaline, 328
CAVERT, H. M., 121
Cellular permeability to sorbitol, 421
CHAIKOFF, I. L., 451
CHANUTIN, A., 384
CHANUTIN, A. AND S. LUDEWIG. Effect of whole body x-irradiation on serum iron concentration of rats, 380
CHAVRE, VIRGINIA J., 456
Chemical substances and nerve sheath, 229
Chondroitin sulfate of hyaline cartilages, 328
CIERESKO, L. S., 433
CLARK, W. G., 603
CLARKE, R. W., 202
CLIFFTON, E. E., 485
Cobalt and altitude effects, 394
CODE, C. F., 462
COHN, ESSIE W. AND F. E. D'AMOUR. Effects of high altitude and cobalt on growth and polycythemia in rats, 394
COLBY, R. W. AND C. M. FRYE. Effect of feeding high levels of protein and calcium in rat rations on magnesium deficiency syndrome, 408

Effect of feeding various levels of calcium, potassium and magnesium to rats, 209
Cold (*see* Hypothermia)
Cold acclimatization, 62
Cold, response in vertebrates, 92
COMSA, J. Utilization of antithyroid action test for bioassay of thymus hormone, 550
Conditioned reflexes and cord lesions, 176
Cooled muscle, failure of potentiation, 480
Cord lesions and conditioned reflexes, 176
Cortisone
and capillary permeability, 509
ionic balance and desoxycorticosterone acetate, 493
and work output, 504
Cortisone acetate, 171
CRANEFIELD, P. F., J. A. E. EYSTER AND W. E. GILSON. Effects of reduction of external sodium chloride on injury potentials of cardiac muscle, 269
CRESCITELLI, F. Nerve sheath as a barrier to action of certain substances, 229
CRISMON, J. M., 424
Crossed phrenic phenomenon, 241
Cysteine protection against x-irradiation, 15

DAMGAARD, EVELYN, 340
D'AMOUR, F. E., 394
DANFORD, H. G. AND PATRICIA A. DANFORD. Circulating leukocytes in sodium chloride deficient rats and their response to epinephrine, ACTH, cortisone and desoxycorticosterone acetate, 524
DANFORD, PATRICIA A., 524
DAVENPORT, H. W. AND VIRGINIA J. CHAVRE. Relation between substrate disappearance and acid secretion in mouse stomach *in vitro*, 456
DAVIS, A. K., ANNE C. BASS AND R. R. OVERMAN. Comparative effects of cortisone and DCA on ionic balance and fluid volumes of normal and adrenalectomized dogs, 493
Death and antibiotics, 349
Deglutition reflex, 142
DEMARIA, W. J. A., 199
DEMOOR, P., 354
DENT, FRANCES M., 374
Desoxycorticosterone acetate
and cortisone, 493
and potassium chloride flooding, 273
Diabetes
and acidosis, 191
glucose utilization, 213
and growth hormone, 354
influence of sex, 364
Diet
and adrenocorticotrophic hormone, 165
and basal blood pressure, 296
calcium, magnesium and potassium, 209
and cortisone acetate, 171
high protein and calcium, 408
lithium, 202
potassium chloride, 273
pyridoxine deficiency, 538
and recovery from starvation, 566
and renal hypertension, 528
Diphenyl hydantoin and narcosis, 718
Diuresis, water and filtration rate, 416
DOTY, R. W. Influence of stimulus pattern on reflex deglutition, 142
DRAGSTEDT, L. R., 679
Drugs
antibiotics, 349
Banthine, 223
and diphenyl hydantoin, 718
histamine absorption, 462
and leukocytes, 524
and renal dynamics, 199
and vagotomy, 470
DRURY, D. R., 213, 421
DRURY, D. R. AND A. N. WICK. Insulin and volume of distribution of glucose, 159
DWORETZKY, M. AND C. F. CODE. Passage of histamine across the wall of small bowel of guinea pigs, 462

EDEMA formation and renal venous pressure, 400
EDER, H. A., 666
EICHELBERGER, LILLIAN, T. D. BROWER AND M. ROMA. Histochemical characterization of inorganic constituents, connective tissue and the chondroitin sulfate of extracellular and intracellular compartments of hyaline cartilages, 328
Electrical systole, 584
Electrocardiogram and ventricle excitability, 610
Electrolytes
and cortisone, 493
and epinephrine, 277
and hyaline cartilages, 328
and lithium, 202
in muscle, 424
and splanchnic nerve, 641
Emetic response and radon destruction, 712
Emptying time and vagotomy, 470
Environment
and genetic variability, 20
and skin and feather temperatures, 572

Enzyme
action and glucose distribution, 159
action of lipotropic fraction, 436
fibrinolytic system, 594
and lipotropic fraction, 441
mucolytic systems, 555
proteolytic activity in serum, 485
Epinephrine (*see also* Adrenaline)
and cardiac muscle changes, 277
and *l*-arterenol in plasma, 304
and renal hemodynamics, 649
Epineurium and chemical substances, 229
Everett, J. W., 223
Eyster, J. A. E., 269

Fasman, G. D., 718
Fasting and basal blood pressure, 296
Fat and vagotomy, 470
Fatty acids, pathway for transport, 451
Feather temperatures, 572
Ferguson, J. H., 594
Fever and liver function, 113
Field, J., 113
Filtration rate and water diuresis, 416
Fisch, S., 387
Fishgold, J. T., R. Grant, J. Field and V. E. Hall. Oxygen consumption and glucose exchange *in vitro* of liver slices from febrile rabbits, 113
Fleetwood, M. F. Determination of adrenergic substance in blood related to anxiety. Identification as nor-adrenaline, 314
Fluorescence, plasma and epinephrine, 304
Foglia, V. G., 541
Fomon, S. J., 641
Foster, R. J., 718
Fox, S., 436
Frye, C. M., 209, 408
Fuhrman, F. A. and J. M. Crismon. Early changes in distribution of sodium, potassium and water in rabbit muscles following release of tourniquets, 424
Fuller, J. L. Genetic variability in some physiological constants of dogs, 20

Gas pressures and narcosis, 699
Gass, S. R., 625
Gas studies and hypothermia, 55
Gastric function and thyroid, 131
Gastric secretion
and sympathectomy, 679
and vagotomy, 470
Gastrocnemius, metabolism of acetate, 121
Gastrointestinal motility and thyroidectomy, 541
Gastrointestinal tract and histamine absorption, 462
Genetic variability, 20
Gilbert, J. L., 610
Gilson, W. E., 269
Glick, D., 555
Glomerular filtration rate and water diuresis, 416
Glomerular function and renal artery occlusion, 666
Glucose
and acid secretion, 456
distribution and insulin, 159
and liver function, 113
metabolism and thyroidectomy, 541
and protein conversion, 213
Glycosuria
and adrenocorticotrophic hormone, 165
and cortisone acetate, 171
Gold, radioactive colloid, and hematology, 323
Goldberg, H., 400
Goldschmidt, L., 15
Gonadotrophin, Banthine blockade, 223
Good, R. A., 555
Good, T. A., R. A. Good, V. C. Kelley and D. Glick. Mucolytic enzyme systems. XVI. Factors influencing hyaluronidase inhibitor levels in serum, role of adrenal cortex, 555
Goodman, H. C., 619
Gordon, A., 400
Grant, R., 113
Grass tetany and magnesium, calcium and potassium, 209
Gray, G. W., 723
Grollman, A., 185
Grossman, M. I., 470
Growth
altitude and cobalt effects, 394
and calcium, potassium and magnesium levels, 408
and recovery from starvation, 566
Growth hormone and insulin nitrogen balance, 354
Guest, G. M., 191
György, P., 436, 441

Haanes, Mary Lou and P. György. *In vitro* action of a new lipotropic fraction in the pancreas, 441
Hahn, P. F., 323
Hall, V. E., 113
Handler, P. and F. Bernheim. Effects of caloric restriction, salt restriction, and role of pituitary and adrenal glands in experimental renal hypertension, 528

HARRIS, J. S. AND W. J. A. DEMARIA. Effects of magnesium sulfate on renal dynamics of normal dogs, 199
HAYES, R. L., 374
Heart (*see also* Cardiac output)
atrial systole and ventricular pressure, 289
and Bazett's *K*, 584
cardioacceleration and hypertension, 12
coronary shock, 603
injury potentials of muscle, 269
Heart rate, ventricle excitability, 610
Heat production, 62
HELLER, J. H., R. B. SETLOW AND E. MYLON. Fluorimetric studies on epinephrine and *l*-arterenol in plasma, 304
Hematology and radioactive colloids, 323
Hemodynamics and renal function, 649
Hemorrhagic pancreatitis and serum lipase, 413
Hemorrhagic shock, renal factor, 658
Heredity and environment variables, 20
HICKAM, J. B., 37
Histamine
and gastric function, 131
passage across wall of bowel, 462
HODGE, H. C., 387
HOFFMAN, B. F., 610
Homeothermy, 92
Hormones and inflammation, 340
HOUCK, C. R. Alterations in renal hemodynamics and function during intravenous injection of epinephrine in the dog, 649
Hyaline cartilages, 328
Hyaluronidase, 555
Hypertension
and adrenal cortex, 185
and basal blood pressure, 296
and cardioacceleration, 12
and epinephrine, 304
and pituitary and adrenal function, 528
and potassium chloride, 273
Hypoglycemia, insulin and gastric secretion, 679
Hypothermia (*see also* Cold)
and blood gases, 55
and heat production, 62
in infant mammals, 75
Hypoxia
blood flow in diseased lung, 37
vasomotor responses, 45

INFANT mammals and hypothermia, 75
Inflammation
and capillary permeability, 509, 518
endocrine control, 340
INGLE, D. J. AND J. E. NEZAMIS. Effect of antibiotics upon survival of eviscerate rat, 349
INGLE, D. J., J. E. NEZAMIS AND E. H. MORLEY. Effect of cortisone upon work output of adrenalectomized rat, 504
INGLE, D. J., MILDRED C. PRESTRUD AND C. H. LI. Effects of administering adrenocorticotrophic hormone by continuous injection to normal rats, 165
INGLE, D. J., MILDRED C. PRESTRUD AND J. E. NEZAMIS. Effects of administering large doses of cortisone acetate to normal rats, 171
Injury potentials of cardiac muscle, 269
INNERFIELD, I., A. ANGRIST, J. W. BENJAMIN AND L. A. KANEGIS. Effect of aureomycin upon blood coagulation time, Ac-globulin and prothrombin activity, 578
Insulin
and acidosis, 191
and distribution of glucose, 159
hypoglycemia and gastric secretion, 679
nitrogen balance and growth hormone, 354
and sorbitol, 421
Intestinal absorption and thyroidectomy, 541
Intestinal lymph and fatty acids, 451
Intestine
histamine absorption, 462
perfusion in uremia, 137
Ionic balance of cortisone and desoxycorticosterone acetate, 493
Iron
metabolism and x-irradiation, 380
and radiation, 384
Isotopes
calcium metabolism and vitamin D, 387
C^{14}-sorbitol and insulin, 421
fatty acids of different chain lengths, 451

JACKSON, M. A., 323
JACOB, S., 413

KAINDL, F. AND U. S. VON EULER. Liberation of nor-adrenaline and adrenaline from suprarenals of cat during carotid occlusion, 284
KANEGIS, L. A., 578
KAPLAN, S. A., S. J. FOMON AND S. RAPOPORT. Effect of splanchnic nerve division on urinary excretion of electrolytes during mannitol loading in the hydropenic dog, 641
KATZ, L. N., 400
KELLEY, V. C., 555
Kidney (*see also* Renal and Bladder)
electrolyte excretion, 641
and intestinal perfusion, 137
and irradiation, 384
Krebs cycle and renal transport mechanisms, 104

Lauson, H. D., 666
Lawrow, J. W., 62
Leukemia and radiation, 323
Leukocytes and sodium chloride deficiency, 524
Levy, M. N. and R. M. Berne. Effects of acute reduction of cardiac output upon mechanisms of sodium excretion in dog, 262
Lewis, Jessica H. and J. H. Ferguson. A proteolytic enzyme system of the blood. III. Activation of dog serum profibrinolysin by staphlokinase, 594
Lewis, L. J. and J. M. Brookhart. Significance of crossed phrenic phenomenon, 241
Li, C. H., 165
Liboro, O., 436
Lichtenstein, H., 191
Lifson, N., A. Omachi and H. M. Cavert. Metabolism of acetate by isolated perfused dog gastrocnemius investigated with C^{13}-carboxyl-labeled acetate, 121
Lipase, serum and hemorrhagic pancreatitis, 413
Lipotropic activity and pancreas, 433
Lipotropic fraction, 436, 441
Lithium, excretion and distribution, 202
Little, R. C. Effect of atrial systole on ventricular pressure and closure of the A–V valves, 289
Liver function and fever, 113
Liver, prevention of fatty, 433, 436, 441
Low temperature and blood gases, 55
Low temperature responses, 92
Ludemann, H., L. G. Raisz and H. Wirz. Filtration rate and water diuresis in dog, 416
Ludewig, S., 380
Ludewig, S. and A. Chanutin. Effect of whole body x-irradiation on storage of iron in liver, spleen and kidney of rats, 384
Lukens, F. D. W., 354
Lung (*see also* Pulmonary)
  blood flow, 37
  and role of vagus, 255
Lymph, intestinal, and fatty acids, 451

Machella, T. E., 436
Mackler, B., H. Lichtenstein and G. M. Guest. Effects of ammonium chloride acidosis on the action of insulin in dogs, 191
Magath, T. B., 1
Magnesium
  effects of feeding, 209
  and oxygen consumption, 219
Magnesium deficiency syndrome, 408
Magnesium sulfate and renal dynamics, 199
Mannitol and electrolyte excretion, 641
Markee, J. E., 223
Marmorston, Jessie, 619
Marshall, Jean M. Nitrogen narcosis in frogs and mice, 699
Mayo, W. P., 723
McCubbin, J. W. and I. H. Page. Role of cardioacceleration in chronic experimental neurogenic hypertension, 12
McGuire, T. F., 296
Medulla oblongata and radon destruction of vomiting center, 712
Menkin, V.
  Effects of ACTH on mechanism of increased capillary permeability to trypan blue in inflammation, 518
  Effects of cortisone on mechanism of increased capillary permeability to trypan blue in inflammation, 509
Metabolism (*see also* Oxygen consumption)
  of acetate, 121
  and alloxan diabetes, 364
  ascorbic acid, 374
  calcium and vitamin D, 387
  and liver function, 113
Miller, A. Katherine, 625
Milman, Anne E., P. DeMoor and F. D. W. Lukens. Relation of purified pituitary growth hormone and insulin in regulation of nitrogen balance, 354
Morley, E. H., 504
Mucolytic enzyme systems, 555
Muscle
  cardiac and sodium chloride, 269
  failure of potentiation in cooled, 480
  metabolism of acetate, 121
Muscle electrolytes and tourniquets, 424
Mylon, E., 304
Myocardial infarction, 603
Myocardium and epinephrine, 277

Narcosis
  and diphenyl hydantoin, 718
  nitrogen, 699
Nasset, E. S., 131
Nephrectomy, bilateral and adrenal cortex, 185
Nerve sheath as barrier, 229
Nerve, vagus, 255
Neurogenic hypertension and cardiac output, 12
Nezamis, J. E., 171, 349, 504
Nitrogen balance and growth hormone, 354
Nitrogen narcosis, 699
Nor-adrenaline from suprarenal, 284

OBERHELMAN, H. A., JR., E. R. WOODWARD, C. A. SMITH AND L. R. DRAGSTEDT. Effect of sympathectomy on gastric secretion in total pouch dogs, 679
O'DONNELL, F., 723
OMACHI, A., 121
OVERMAN, R. R., 493
OWEN, C. A., JR., T. B. MAGATH AND J. L. BOLLMAN. Prothrombin conversion factors in blood coagulation, 1
Oxidation and tubular transport mechanisms, 104
Oxygen consumption (*see also* Metabolism)
and hypothermia, 62
and liver function, 113
and phenobarbital, 219

PAGE, E. B., 37
PAGE, I. H., 12
p-Aminohippurate and renal artery occlusion, 666
Pancreas
and lipotropic activity, 433
lipotropic fraction, 436, 441
Pancreatitis, hemorrhagic and serum lipase, 413
PELLON, R., 658
Pelvic nerve section
and bladder, 692
and bladder function, 686
PENROD, K. E., 55
PERSKY, L., H. A. RAVIN, S. JACOB AND A. M. SELIGMAN. Serum lipase activity in experimental acute hemorrhagic pancreatitis, 413
PEYSER, P., 277
Phenobarbital and oxygen consumption, 219
Phrenic phenomenon, crossed, 241
Physical fitness (*see* Work performance)
Physiological constants and genetic variability, 20
PICKERING, B. I., 15
Pituitary
and nitrogen balance, 354
and renal hypertension, 528
Placenta and blood flow in umbilical cord, 25
PLAISTER, T. H., 572
Plasma levels and cortisone, 493
Polycythemia, altitude and cobalt effects, 394
Potassium, effects of feeding, 209
Potassium chloride and cardiac mass, 273
Potentiation in cooled muscle, 480
PRESTRUD, MILDRED C., 165, 171
Profibrinolysin and staphylokinase, 594
Protein
glucose equivalent, 213
and magnesium syndrome, 408
Proteinuria, 619
Proteolytic activity in serum, 485
Prothrombin
and aureomycin, 578
conversion, 1
PRYOR, W. W., 37
Pulmonary artery occlusion, 262
Pulmonary carbon dioxide and vascular response, 723
Pyramidal tract, transection and conditioned reflexes, 176
Pyridoxine deficiency and water metabolism, 538

QUIMBY, F. H. Effects of hormone, vitamin and liver supplements on appetite and growth of young rat during recovery from chronic starvation, 566
QT interval, 584

RADIATION
and calcium metabolism, 387
and hematology, 323
and iron metabolism, 384
and serum iron concentration, 380
X-ray and cysteine protection, 15
Radon destruction of vomiting center, 712
RAISZ, L. G., 416
RAPOPORT, S., 641
RAVIN, H. A., 413
Reflex deglutition, 142
REINHARDT, W. O., 451
Renal absorption and lithium, 202
Renal affinity and elimination of Benemid, 625
Renal artery occlusion and renal function, 666
Renal dynamics and magnesium sulfate, 199
Renal factor in shock, 658
Renal function after renal artery occlusion, 666
Renal hemodynamics and epinephrine, 649
Renal hypertension and pituitary, 528
Renal transport mechanisms, 104
Renal venous pressures and sodium clearance, 400
RENE, R. M., 104
Renin and sodium and chloride excretion, 619
Respiration
and crossed phrenic phenomenon, 241
and reflex deglutition, 142
and role of vagus, 255

REYNOLDS, S. R. M. Arterial and venous pressures in umbilical cord of the sheep and nature of venous return from the placenta, 25
RHOADS, J. E., O. LIBORO, S. FOX, P. GYÖRGY AND T. E. MACHELLA. *In vivo* action of a new lipotropic fraction of the pancreas, 436
ROBB, JANE S. Study of Bazett's *K* in animals, 584
ROBERTSON, CHARLOTTE, 470
ROBERTSON, W. V. B. AND P. PEYSER. Changes in water and electrolytes of cardiac muscle following epinephrine, 277
ROMA, M., 328
ROOF, BETTY S., H. D. LAUSON, S. T. BELLA AND H. A. EDER. Recovery of glomerular and tubular function, including *p*-aminohippurate extraction, following two hours of renal artery occlusion in the dog, 666
ROOT, W. S., 686
ROSENBURG, M. J., 603
ROSENHAIN, F. R. AND K. E. PENROD. Blood gas studies in hypothermic dog, 55
ROSENTHAL, R. L., L. GOLDSCHMIDT AND B. I. PICKERING. Hematologic changes in rats protected by cysteine against total body x-irradiation, 15
ROSIERE, C. E., 470
RUSH, B., JR. AND E. E. CLIFFTON. Control of proteolytic activity in serum: effect of soybean inhibitor *in vivo* in the mouse, 485
RUSSO, H. F., 625

SACRAL root section and the bladder, 692
SAWYER, C. H., J. E. MARKEE AND J. W. EVERETT. Blockade of neurogenic stimulation of rabbit adenohypophysis by Banthine, 223
SCHNEIDERMAN, A., 603
SCOW, R. O. AND V. G. FOGLIA. Effect of neonatal thyroidectomy, age and sex on intestinal absorption and tolerance of orally administered glucose in the rat, 541
SELIGMAN, A. M., 413
SELLERS, A. L., S. SMITH, III, H. C. GOODMAN AND JESSIE MARMORSTON. Effects of renin on excretion of sodium, chloride and water in the rat, 619
Serum iron concentration and x-irradiation, 380
Serum lipase and hemorrhagic pancreatitis, 413
Serum, proteolytic activity, 485
SETLOW, R. B., 304
SEWELL, MARIANNA B., 374
Sex
  and diabetes, 364
  and glucose metabolism, 541
SHIDEMAN, F. E. AND R. M. RENE. Succinate oxidation and Krebs cycle as an energy source for renal tubular transport mechanisms, 104
Shock
  and cooled muscle, 480
  coronary, 603
  and muscle electrolytes, 424
  renal factor, 658
SHORR, E., 658
SIEBENS, A. A., B. F. HOFFMAN, J. L. GILBERT AND E. E. SUCKLING. Effect of rate on excitability of dog's ventricle, 610
Skin and feather temperatures, 572
SLOAN, H. Effect of perfusion of isolated intestinal loops on experimental uremia in dogs, 137
SMITH, C. A., 679
SMITH, S., III, 619
Smooth muscle and parasympathetic denervation, 686
Sodium chloride (*see also* Electrolytes)
  and cardiac muscle, 269
  deficiency and leukocytes, 524
Sodium and chloride levels and cortisone, 493
Sodium clearance and renal venous pressure, 400
Sodium excretion
  and cardiac output, 262
  and renin, 619
Sodium intake and lithium, 202
Sorbitol and insulin, 421
Soybean inhibitor, 485
Spinal cord
  and diphenyl hydantoin, 718
  transections and conditioned reflexes, 176
Splanchnicotomy and electrolyte excretion, 641
STAMLER, J., H. GOLDBERG, A. GORDON, M. WEINSHEL AND L. N. KATZ. Relationship of elevated renal venous pressure to sodium clearances and edema formation in unanesthetized dogs, 400
Staphylokinase and profibrinolysin, 594
Starvation, recovery from, 566
STEBBINS, R. B. Impaired water metabolism in pyridoxine deficiency and effects of pyridoxine and adrenal cortical hormone, 538
Steroids
  cortisone and desoxycorticosterone acetate, 493
  and work performance, 504
Stomach
  acid secretion, 456
  and adrenocorticotrophic hormone administration, 165

gastric secretion and sympathectomy, 679
histamine passage, 462
Stress
and adrenal cortex, 165, 185
anxiety and nor-adrenaline, 314
Substrates and acid secretion, 456
Succinate oxidation and renal transport mechanisms, 104
SUCKLING, E. E., 610
Suprarenal, adrenaline output, 284
Survival and antibiotics, 349
Swallowing, stimulus pattern, 142
Sympathectomy and gastric secretion, 679

TALSO, P. J. AND R. W. CLARKE. Excretion and distribution of lithium in the dog, 202
Temperature
body changes, 62
body temperature of infant mammals, 75
body temperature and muscle potentiation, 480
body temperature of vertebrates, 92
skin and feather, 572
Thrombin conversion, 1
Thymus hormone, 550
Thyroid
anti-, test for thymus hormone, 550
and gastric function, 131
Thyroidectomy and glucose metabolism, 541
Thyroxine, non-, and gastric function, 131
TILLSON, ELIZABETH K., 625
Tourniquets and muscle electrolytes, 424
Trypan blue and capillary permeability, 509, 518
Tubular reabsorption and renin, 619
Tubular secretion and Benemid, 625
TURNER, L. B. AND A. GROLLMAN. Role of adrenal cortical activity in experimental hypertension induced by bilateral nephrectomy in the dog, 185

UMBILICAL vessels, blood flow, 25
UNDERWOOD, ELIZABETH, S. FISCH AND H. C. HODGE. Metabolism of calcium in normal, rachitic and vitamin D-treated rats as evidenced by radiocalcium Ca^{45} studies, 387
UNGAR, G., EVELYN DAMGAARD AND H. G. WEINSTEIN. Endocrine control of inflammation; effect of hormones on anaphylactic arthritis, 340
Uremia and intestinal perfusion, 137

VAGOTOMY in dogs, 470
Vagus and respiration, 255
VAN HARREVELD, A., R. J. FOSTER AND G. D. FASMAN. Effect of diphenyl hydantoin (Dilantin) on ether and pentobarbital (Nembutal) narcosis, 718
Vascular response
and pulmonary carbon dioxide, 723
to shock, 658
Vasomotor center and hypoxia after denervation, 45
Ventricle excitability, 610
Ventricular pressure and atrial systole, 289
Vertebrates, temperature responses, 92
VERWEY, W. F., 625
Vitamin D in calcium metabolism, 387
Volume-pressure relations in bladder, 686
Vomiting center, radon destruction of, 712
VON EULER, U. S., 284

WALDMANN, E. B., 296
WALKER, S. M. Failure of potentiation in successive, post-tetanic, and summated twitches in cooled skeletal muscle of the rat, 480
WANG, S. C. AND H. L. BORISON. Vomiting center: its destruction by radon implantation in dog medulla oblongata, 712
Water changes and epinephrine, 277
Water diuresis and filtration rate, 416
Water excretion and renin, 619
Water metabolism in pyridoxine deficiency, 538
WATMAN, R. N. AND E. S. NASSET. Evidence for a non-thyroxine thyroid factor which affects gastric function, 131
WEINSHEL, M., 400
WEINSTEIN, H. F., 340
WESTFALL, B. A. Relationship of calcium and magnesium to effects of phenobarbital on Q_{O_2} of brain slices, 219
WHEELER, B., M. A. JACKSON AND P. F. HAHN. Hematology of dog following intravenous administration of radioactive colloidal gold, 323
Whole-body irradiation and storage of iron, 384
WICK, A. N., 159
WICK, A. N. AND D. R. DRURY. Action of insulin on permeability of cells to sorbitol, 421
WILHELMJ, C. M., E. B. WALDMANN AND T. F. MCGUIRE. Basal blood pressure of normal dogs determined by an auscultatory method and a study of effect of fasting, 296

WILSON, W. O. AND T. H. PLAISTER. Skin and feather temperatures of hens kept at constant environmental temperatures, 572
WIRZ, H., 416
WOODCOCK, C. C., JR., 45
WOODWARD, E. R., 679
Work performance and cortisone, 504

X-RAYS
and cysteine protection, 15
and iron concentration, 380
and iron metabolism, 384

ZWEIFACH, B. W., 658